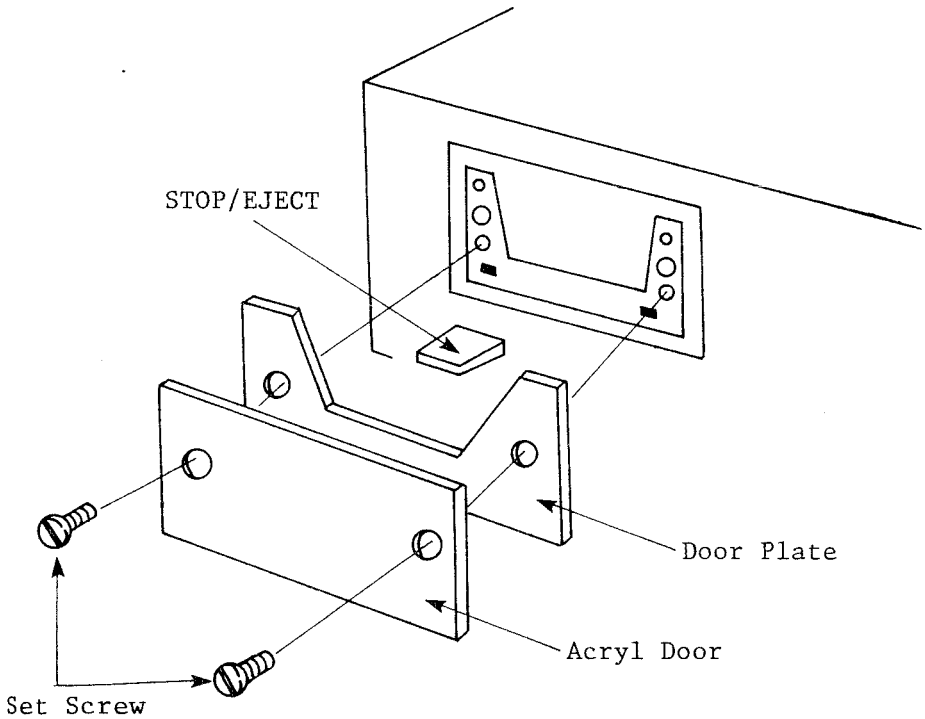
SERVICE MANUAL

LUXMAN
STEREO CASSETTE DECK K-1

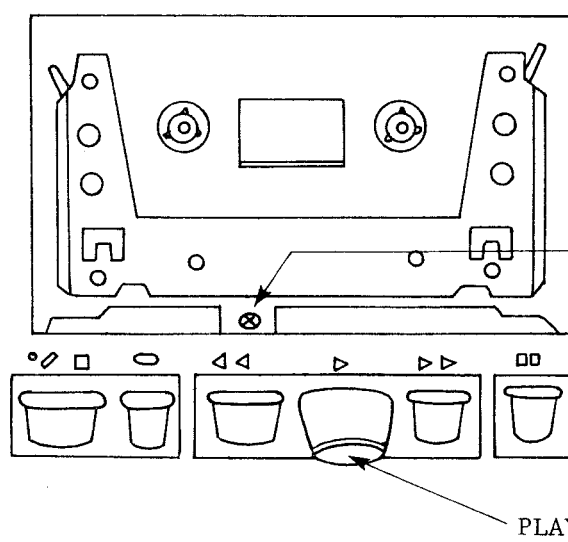
Head Azimuth Adjustment

(1) Close the cassette door, then remove the two set screws. At this point, take care not to let the door plate down. (Fig. 1)

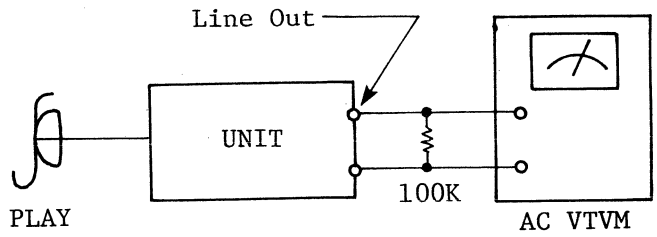
(2) Take off the door plate then depress the PLAY button, and the azimuth adjusting screw "A" will appear. (Fig. 2)



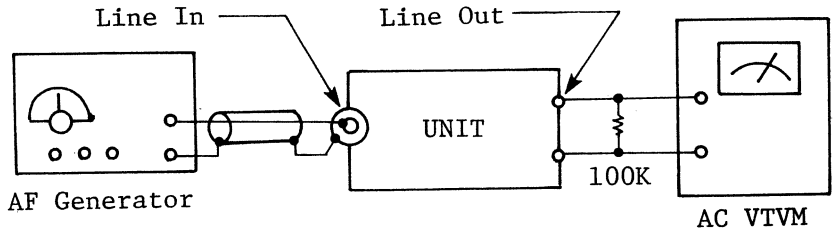
(Fig. 1)



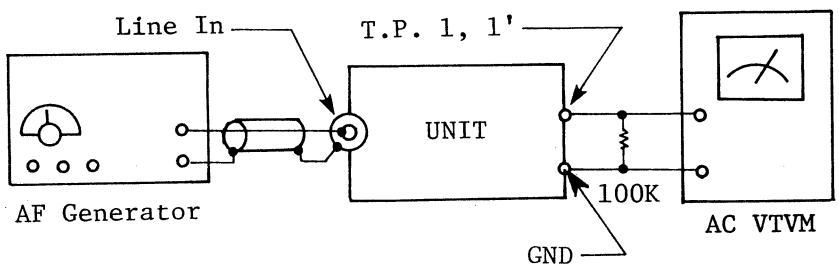
(Fig. 2)



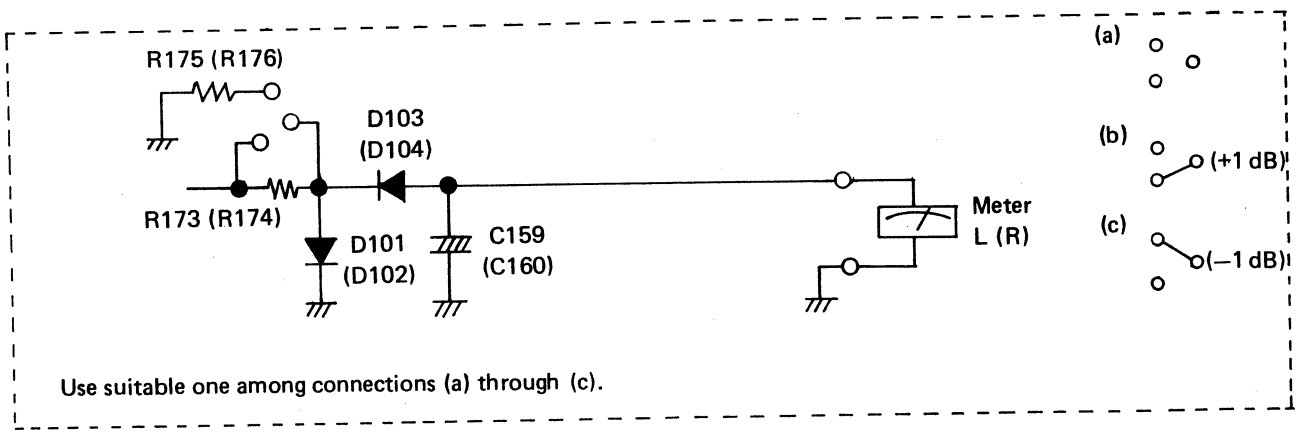
(Fig. 3)



(Fig.4)

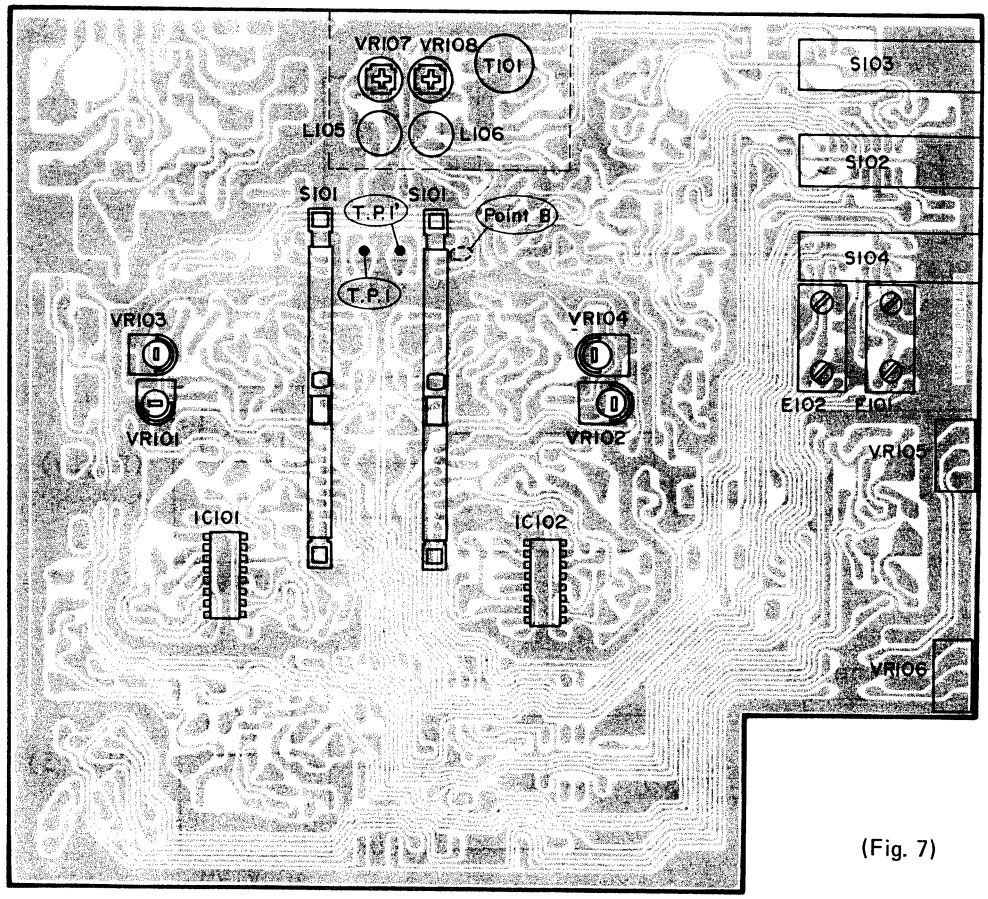


(Fig. 5)



(Fig. 6)

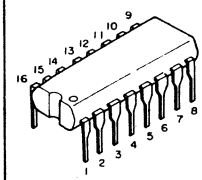
Adjustment Locations



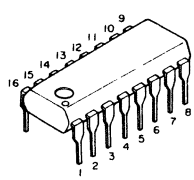
(Fig. 7)

Semiconductor Lead Identifications

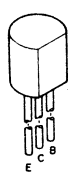
NE645:IC101,102



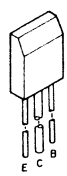
IM1011N:IC101,102



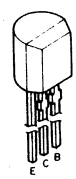
2SC900E:Q101,102, 103,104,107,108



2SC509:Q105,106

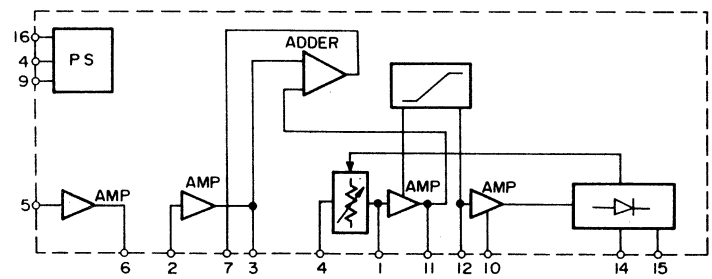


2SC1890:Q109

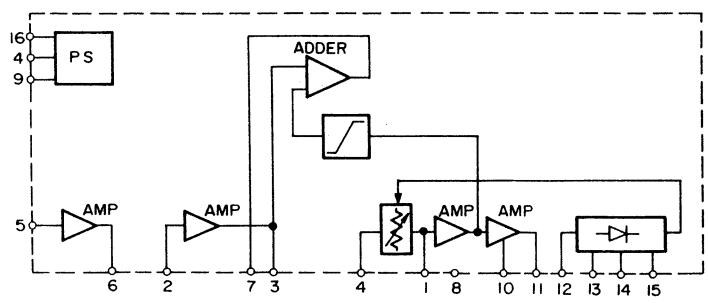


2SD235-R: Q110

NE645B



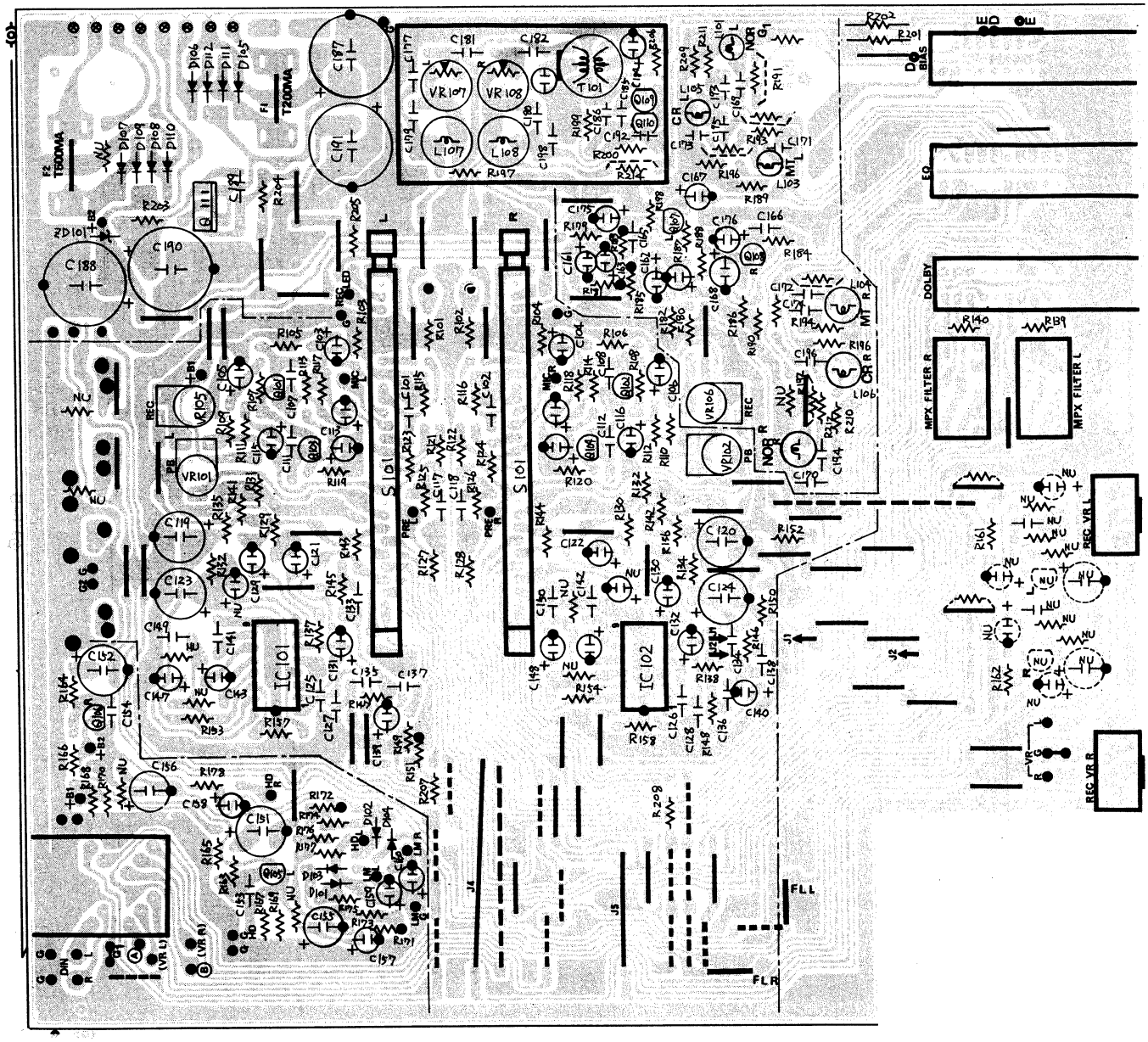
LM1011N



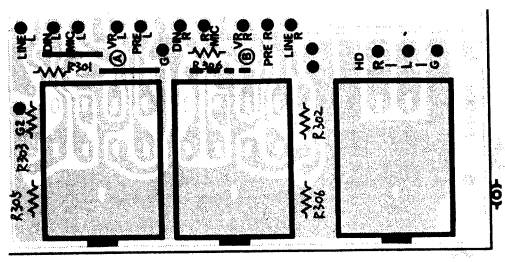
K-1 ADJUSTMENT PROCEDURE

STEP	DESCRIPTION	SWITCH MODE	ADJUST. POINT	TEST POINT	CONNECTION INSTRUCTIONS	REMARKS
1	Head Azimuth Adjustment	Play EQ: norm. NR: off	"A" screw	Line Out	Fig. 1,2,3	Test Tape: MTT-114 T.P. Output: Maximum level at both channels.
2	Playback Level Adjustment	Play EQ: norm. NR: off	VR101 VR102	Line Out	Fig. 3	Test Tape: MTT-150 T.P. Output: 580mV
3	Level Meter Adjustment	Play EQ: norm. NR: off	see Fig.6	Observe Level Meter	Fig. 3	Test Tape: MTT-150 Level Meter Indication: Dolby "□□" mark (+3VU)
4	Normal Bias Adjustment	Record EQ: norm. NR: off Bias: low	VR107 VR108	T.P. 1 T.P. 2	Fig. 5	Input: non Adjust Level to 43mV.
5	1 Input Adjustment	Record EQ: norm. NR: off	VR105 VR106	Line Out	Fig. 4	Test Signal Line Input: 400Hz 300mV Adjust record volume to 400mV.
	2 Recording Current Adjustment	Record EQ: norm. NR: off Bias: off	VR103 VR104	T.P. 1 T.P. 2	Fig. 7	Bias : off Remove dipping solder at point "B". Adjust level to 5mV.
6	Recording Current Readjustment	Record EQ: norm. NR: off	VR103 VR104	Line Out	Fig. 4	Test Signal Line Input: 400Hz 300mV Set the record volume to 400mV. Recording Level: 400mV--- OK <400mV--- Increase Rec. current (repeat 5-2) >400mV--- Decrease Rec. current (repeat 5-2)
7	Bias Readjustment	Record EQ: norm. NR: off	VR107 VR108	Line Out	Fig. 4	Test Signal Line Input: -23dB From Dolby Level Recording Level: 13kHz = 400Hz --- OK 13kHz < 400Hz --- Decrease bias current. (repeat step 4) 13kHz > 400Hz --- Increase bias current. (repeat step 4)

‹MASTER BOAD›



‹Mic HP PANEL›



SYMBOL NO.	PART NUMBER	DESCRIPTION	NOTE	QUANTITY PER UNIT
		< Assy., Master Board >		
L107, 108	24T44499P01	Coil, Inductor		2
L101, 102	24S41448F82	Induc. Radial 5600UH		2
L103, 104	24S41448F80	" " 3900UH		2
L105, 106	24S41448F81	" " 4700UH		2
T101	25T44260F01	Trans, OSC (Hi-B)		1
S102, 104	40T43812F01	SW., Lever EQ		2
S103	40T43813F01	" " Bias.		1
S101	40T44493P01	" R/P Slide		2
Q101, 102	48S40149P01	TR., 2SC900E		2
Q103, 104	48S40149P01	" "		2
Q107, 108	48S40149P01	" "		2
Q111	48S40662G02	" 2SD235-R		1
Q105, 106	48S43239G02	" 2SC509		2
Q109, 110	48S43239G02	" "		2
				2
E101, 102	51T42537U01	MPX, Filten		2
				1
D111, 112	48C40235G02	Diode, 10E2		2
D105, 106	48C40235G02	" "		2
OR	48T40477U01	" IN4003		4
ZD 101	48T44496P01	" RD24E B		1
OR	48T4015QU85	Diode, Zennen HZ24-1		1
OR	48T40150U86	" " HZ24-2		1
D107, 108	48C40235G01	Dido, 10E1		2
D109, 110	48C40235G01	" "		2
OR	48T40477U01	" IN4003		4
R131, 132	6D40801G55	Res., F.C 470-1/2W		2
R133, 134	6D40801G63	" 1.0K-1/2W		2
R135, 136	6D40801G63	" "		2
R157, 158	6S44594P20	" 180K		2
IC101, 102	51T40114T01	NE645B		2
	84D42470F01	Panel, Etched		1
R177, 178	6D40801G27	Res., F.C 33-1/2W		2
R206	6D40801G25	" 27-1/2W		1
R167, 168	6D40801G51	" 330-1/2W		2
R169, 170	6D40801G51	" "		2
R205	6S44593P75	" 2.7K		1
R203	6D40801G67	" 1.5K-1/2W		1
R204	6S44593P09	" 4.7-1/4		1
R173, 174	6S44593P37	" 68		2
R101, 102	6S44593P41	" 100		2
R105, 106	6S44593P41	" 100		2
R137, 138	6S44593P41	" 100		2
R161, 162	6S44593P41	" 100		2
R163, 164	6S44593P41	" 100		2
R171, 172	6S41801P20	" 100-1/4		2
R115, 116	6S44593P45	" 150		2
R149, 150	6S44593P47	" 180-1/4		2
R214, 215	6C44652G39	" Met 36-2W		2
R201	6C44652G23	" Metal Film 150-1		1

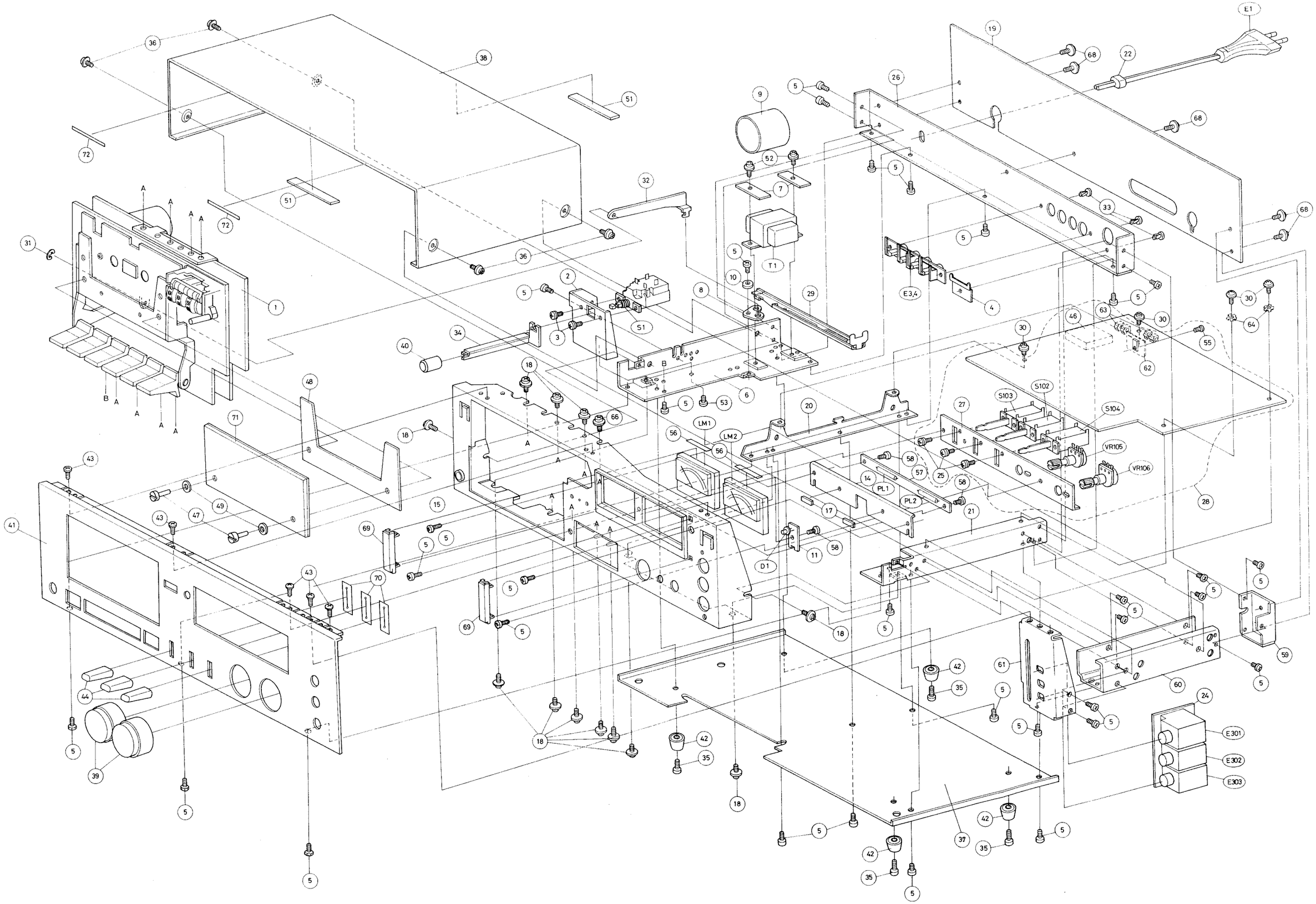
SYMBOL NO.	PART NUMBER	DESCRIPTION	NOTE	QUANTITY PER UNIT
R202	6D40801G49	" F.C 270-1/2W		1
R207, 208	6S44593P65	" 1K		2
R119, 120	6S44593P67	" 1.2K		2
R187, 188	6S44593P75	" 2.7K		2
R145, 146	6S44593P77	" 3.3K		2
R211, 212	6S44593P83	" 5.6K		2
R195, 196	6S44593P81	" 4.7K		2
R127, 128	6S44593P81	" 4.7K		2
R175, 176	6S44593P81	" 4.7K		2
R193, 194	6S44593P83	" 5.6K		2
R123, 124	6S44593P85	" 6.8K		2
R209, 210	6S44593P99	" 27K		2
R197, 198	6S44593P89	" 10K		2
R111, 112	6S44593P93	" 15K		2
R117, 118	6S44593P93	" "		2
R179, 180	6S44593P93	" "		2
R182	6S44593P93	" "		1
R181	6S41801P46	" 15K-1/4		1
R121, 122	6S44593P92	" 13K		2
R186	6S44593P95	" 18K		1
R185	6S41801P47	" 18K-1/4		1
R199, 200	6S44593P97	" 22K		2
P147, 148	6S44594P06	" 47K		2
P165, 166	6S44594P11	" 75K		2
P129, 130	6S44594P14	" 100K		2
R139, 140	6S44594P14	" "		2
R141, 142	6S44594P14	" "		2
R143, 144	6S44594P14	" "		2
R152, 189	6S44594P14	" "		2
R190	6S44594P14	" "		1
R151	6S41801P56	" 100K-1/4		1
R103, 104	6S44594P14	Res., F.C. 100K		2
R109, 110	6S44594P20	" 180K		2
R113, 114	6S44594P22	" 220K		2
R153, 154	6S44594P24	" 270K		2
P125, 126	6S44594P26	" 330K		2
R107, 108	6S44594P30	" 470K		2
R184	6S44594P46	" 2.2M		1
R183	6D44501G72	" 2.2M-1/4		1
C135, 136	8S44503P09	Cap., Mylen 0.0047		2
C137, 138	8S44503P10	" 0.0056		2
C169, 170	8S44503P13	" 0.01		2
C117, 118	8S44503P13	" 0.01		2
C173, 174	8S44503P13	" "		2
C193, 194	8S44503P13	" "		2
C195, 196	8S44503P14	" 0.012		2
C171, 172	8S44503P13	" 0.01		2
C185	8S44503P15	" 0.015-50		1
C192, 186	8S44503P13	" 0.01		2
C133, 134	8S44503P18	" 0.027-50		2
0.141, 142	8S44503P21	" 0.047		2
C183	8T42081U49	Cap., Polyethlen 0.01		1
C165, 166	21C45322G15	Cap., Cer, 27P-50V		2
C111, 112	8S44505P25	Cap., Cer. H 33PF		2
C153, 154	8S44505P33	" 68P-50V		2
C125, 126	8S44505P41	" 220PF		2
C127, 128	8S44505P41	" "		2
C177, 178	8S44505P43	" H 330PF		2
C101, 102	8S44505P44	" H 390P		2

SYMBOL NO.	PART NUMBER	DESCRIPTION	NOTE	QUANTITY PER UNIT
C107, 108	8S44505P45	" H 470P		2
C189	8S44505P45	" "		1
C181, 182	8S44505P23	" H27P		2
C149, 150	8C44833J25	Cap., Mylah 0.1		2
C179, 180	21C44572J21	Cap., Cer. 82P-500V		2
C188	23S41198U71	Cap., Elec. 2200-16V		1
C161, 162	23C42909J01	" 0.22-50V		2
C122, 121	23C42909J-4	" 0.33-50V		2
C147, 148	23C42909J04	" "		2
C163, 164	23C42909J04	" "		2
C103, 104	23D44333G06	" 4.7-35V		2
C105, 106	23D44333G-6	" "		2
C175, 176	23D44333G06	" "		2
C184	23D44333G06	" "		1
C129, 130	23D44333G08	" 10MF-16V		2
C131, 132	23D44333G08	" "		2
C139, 140	23D44333G08	" "		2
C143, 144	23D44333G08	" "		2
C157, 158	23D44333G08	" "		2
C115, 116	23D44333G09	" 10-25V		2
C113, 114	23D44333G12	" 22-10V		2
C159, 160	23D44333G12	" "		2
C109, 110	23D44333G18	" 33-10V		2
C167, 168	23D44333G18	" "		2
C155, 156	23D44333G25	" 47-16V		2
C151, 152	23D44333G30	" 100-10V		2
C119, 120	23D44333G37	" 220-16		2
C123, 124	23D44333G37	" "		2
C190, 191	23D44333G50	" 470-25V		2
C187	23D44333G51	" 470-35V		1
VR101, 102	18C42061J15	Res., Variable 50K		2
VR103, 104	18C42061J15	"		2
VR105, 106	18T44110U01	VR Rotary		2
VR107, 108	18C41732G04	Res., Sol 100K		2
D101, 102	48B41768G01	Diode, IN60		2
D103, 104	48B41768G01	" "		2
R191, 192	6S44593P45	Res., F.C 150		2
F101	65T42077U09	Fuse Semko		1
F102	65T42077U16	"		1

< Assy., Mic HP Panel >

	84D42470F02	Panel, Etched Mic/H.P		1
R305, 306	6S44593P77	Res., C.F. 3.3K		2
R301, 302	6S44594P98			
E301, 302	9T43887U02	Jack, Mic		2
OR	9T42868F07	Jack, 6.3 Dia (Metal)		2
R303, 304	6S44594P30	Res., C.F 470K		2
E303	9T41183U01	Jack, HD - Phone		1
OR	9T42868F02	Jack, 6.3 Dia (Metal)		1

SYMBOL NO.	PART NUMBER	DESCRIPTION	NOTE	QUANTITY PER UNIT
		< EXPLODED VIEW (EXTERIOR) >		
1	81D43808F01	Cassette Deck		1
2	7A40051U02	BKT. SW		1
3	3S40011G42	Scr., Mc. (M3x5)		2
4	7A40703T01	Support DIN		1
5	3S44205G01	Scr., Tpg. (M3x6)		32
6	7D405771101	BKT. L		1
7	7A40871F01	Support TR		2
8	7A40986T01	Support Record		1
9	26C41056G02	Shield MAG Inside		1
10	43A40541J08	Spacer		1
11	84D42470F04	Panel, REC LED		1
12	Not Used			
13	Not Used			
14	7A40573U01	BKT, Meter		1
15	7D40579U04	Frame, Front		1
16	Not Used			
17	7A40587J04	Support Level Meter		2
18	3S40036U02	Scr Tap Tite (M3x8)		12
19	15C43785F01	Cover, Rear		1
20	7D40577U02	BKT Center		1
21	7D40577U03	BKT R		1
22	43B41625J02	Stopper Cord		1
23	Not Used			
24	1V43600F97	Assy., MIC Panel		1
25	3C40014G04	Scr., Mch. (M3x6)		3
26	7C40574U06	BKT., Rear		1
27	7B44098U01	BKT. SW		1
28	1V43600F96	Assy., Master Board		1
29	1V41200U44	Assy., Record Lever(B)		1
30	3S40018G01	Scr., Tpg. (M3x6)		4
31	4C42091G01	Washer C		1
32	7A44358P01	Lever Record A		1
33	5B41635J02	Rivet Push		3
34	45A41770U01	Lever SW		1
35	3S44205G10	Scr., Tap Tite (M3x10) BIK		4
36	3S40036U01	Scr., Tap Tite (M4x8) BIK		4
37	15C40576U01	Cover Bottom		1
38	15D43795U01	Cover Top		1
39	36B43789F01	Knob, Control		2
40	36B40989U07	Knob, Push SW.		1
41	64D43787F01	Panel, Front		1
42	75A43532P01	Pad Trannleq		4
43	3S40012G55	Scr., Tpg. (M3x8) Flat		5
44	36A43785U01	Knob Lever		3
45	Not Used			
46	7B44494P01	Shieid OSC		1
47	3A43784U01	SCR Special (M4x6)		2
48	64A43786F01	Piate, Door		1
49	4A41014U01	Washer Rubber		2
50	Not Used			2
51	75AAA632G0A	Pad, Cushion		2
52	3S44205G03	Scr., Tap Tite (M3x8)		2
53	3S40011G21	Scr., Mch (M3x4)		1
54	Not Used			
55	3S44205G12	Scr., Tap Tite (M3x4)		1
56	91A40476F06	Filter, Color		2
57	84B40058U01	Panel Lamp		1/4
58	3S40012G23	Scr., Tap Tite (M3x8)		3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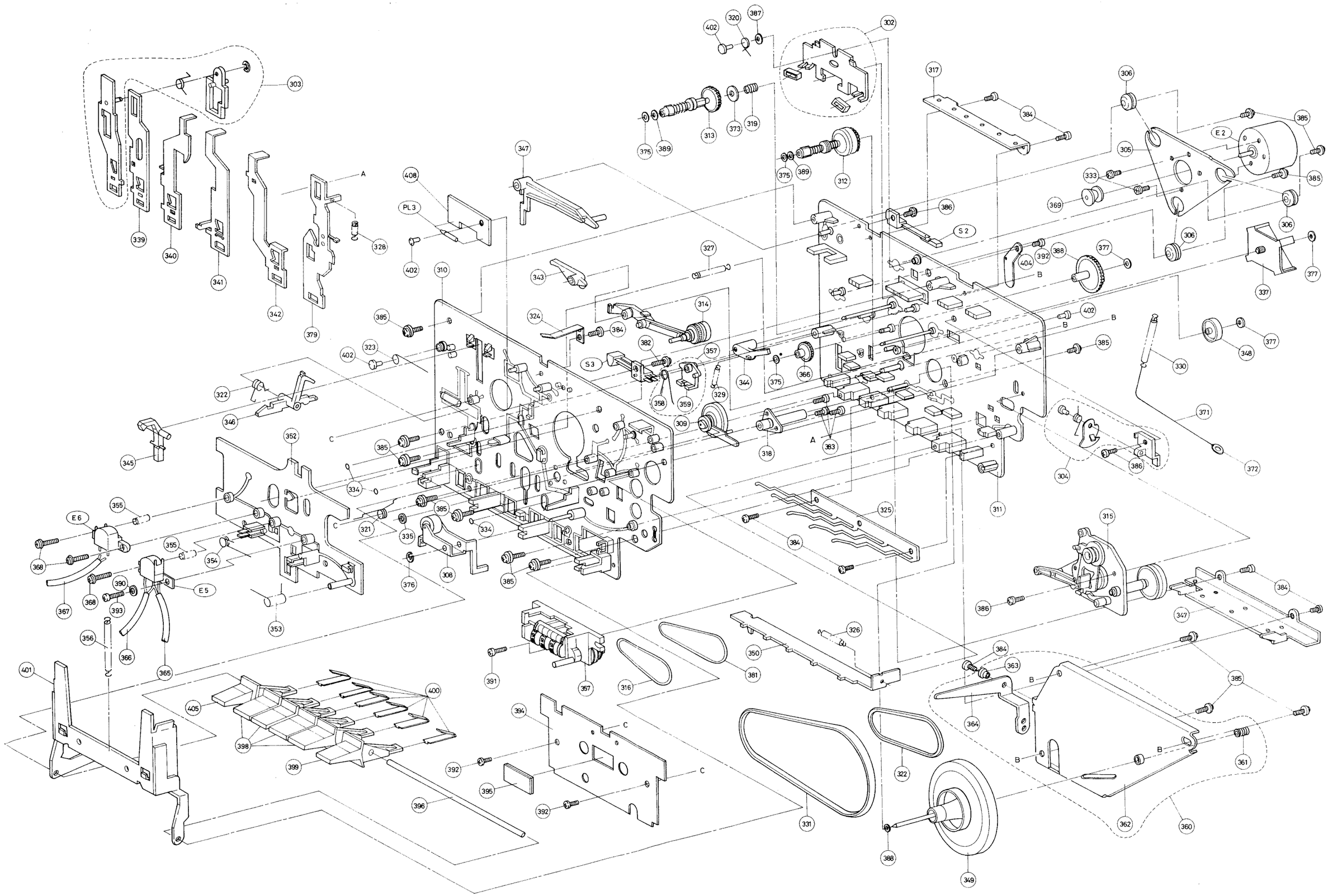
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SYMBOL NO.	ART NUMBER	DESCRIPTION	NOTE	QUANTITY PER UNIT
404	41A40393F01	Spring, Shaft Hold		1
405	36B42622U02	Knob, Stop		1
406	Not Used			
407	Not Used			
408	84A42963U01	Lamp, Panel		1

< Miscellaneous >

S1	40T41998P02	SW. Power (SDG 5P-E)		1
D1	48T40584F01	L.E.D. LN28RD		1
PL1, PL2	65T40364F01	Lamp, 12V 110 MA		2
TI	25T44350P01	Trans. Power		1
EI	28B40832P01	Plug. A.C. Cord		1
LM1, 2	72C41174F04	Meter, Level		2
E3, 4	9B44393P01	Plate Phono		1

< Miscellaneous >

S3	40B40370P02	Switch, Double Leaf		1
S2	40T41630U01	Seitch, Leaf		1
E2	59T40783T01	Motor		1
E6	88T40192F01	Erase Head		1
E5	88T43656F01	Record/Playback Head		1
PL3	65A44395P01	Bulb, Lamp		1

< Assy., Packing >

101	IV43700F01	Assy., Pamph		1
101-1	56B40230G21	Sack Poly		1
101-2	68R43790F01	Owners, Manual		1
102	56B40230G23	Sack, Poly		1
103	56C42357140	Carton, Pkg.		1
104	56C44980P02	Tray, Packing		2
105	1V44200J30	Assy., Kit		1
105-1	28C42374J02	Cord. Out Put		2
105-2	56B40230G16	Sack Poly		1
106	56C40730T43	Carton Bulk PKG.		1/2
107	56D1118J35	Pad. PKG.		1/2

SPECIFICATIONS

Heads:	Heads:
	Record/Playback Head(Ultra Hard Permalloy)×1
	Erase Head(Double Gap Ferrite)×1
Wow & Flutter:	no more than 0.06%(W.R.M.S.)
Signal-to-Noise Ratio:	better than56dB(Dolby Off)···Metal tape
	better than63dB(Dolby On)···Metal tape
	better than56dB(Dolby Off)···CrO2 tape
	better than63dB(Dolby On)···CrO2 tape
	better than50dB(Dolby Off)···LH tape
	better than60dB(Dolby On)···LH tape
Frequency Response:	30Hz-18,000Hz(metal tape)
	30Hz-16,000Hz(CrO2 tape)
	30Hz-15,000Hz(LH tape)
Overall Distortion:	no more than 1.5%(LH tape, 1kHz, 0dB)
Input Sensitivity:	line in;70mV
	mic;0.2mV(recommended microphone impedance:600-10k ohms)
	DIN;1mV/1k ohms
Output Level:	line;580mV
	headphone;1mW(8 ohms load)
Additional Features:	3-position Bias/Equalizer Selector(CrO2, normal, metal), Playback SKEW Adjustment Hole, Dolby NR System, Headphone Jack, Automatic Program Selector
Power Consumption:	20W
Dimensions:	438(W)×260(D)×148(H)mm
	(17-1/4"×10-1/4"×5-13/16")
	(including legs, front & rear protrusions)
Weight:	Net 5.2kgs(11.4lbs.)
	Gross 6.7kgs(14.7lbs.)

Specifications and appearance design subject to change without notice.
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LUX CORPORATION, JAPAN

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